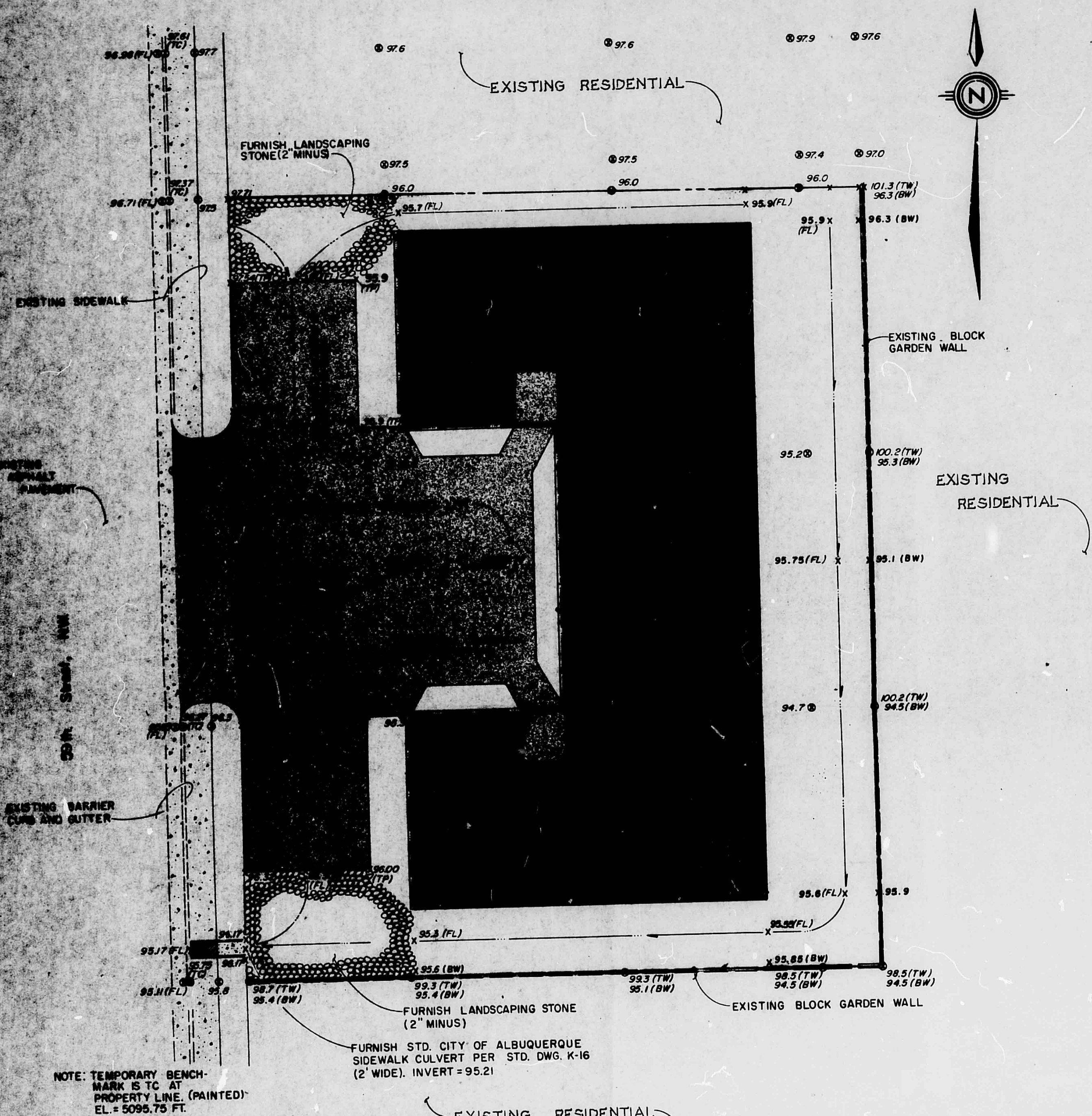
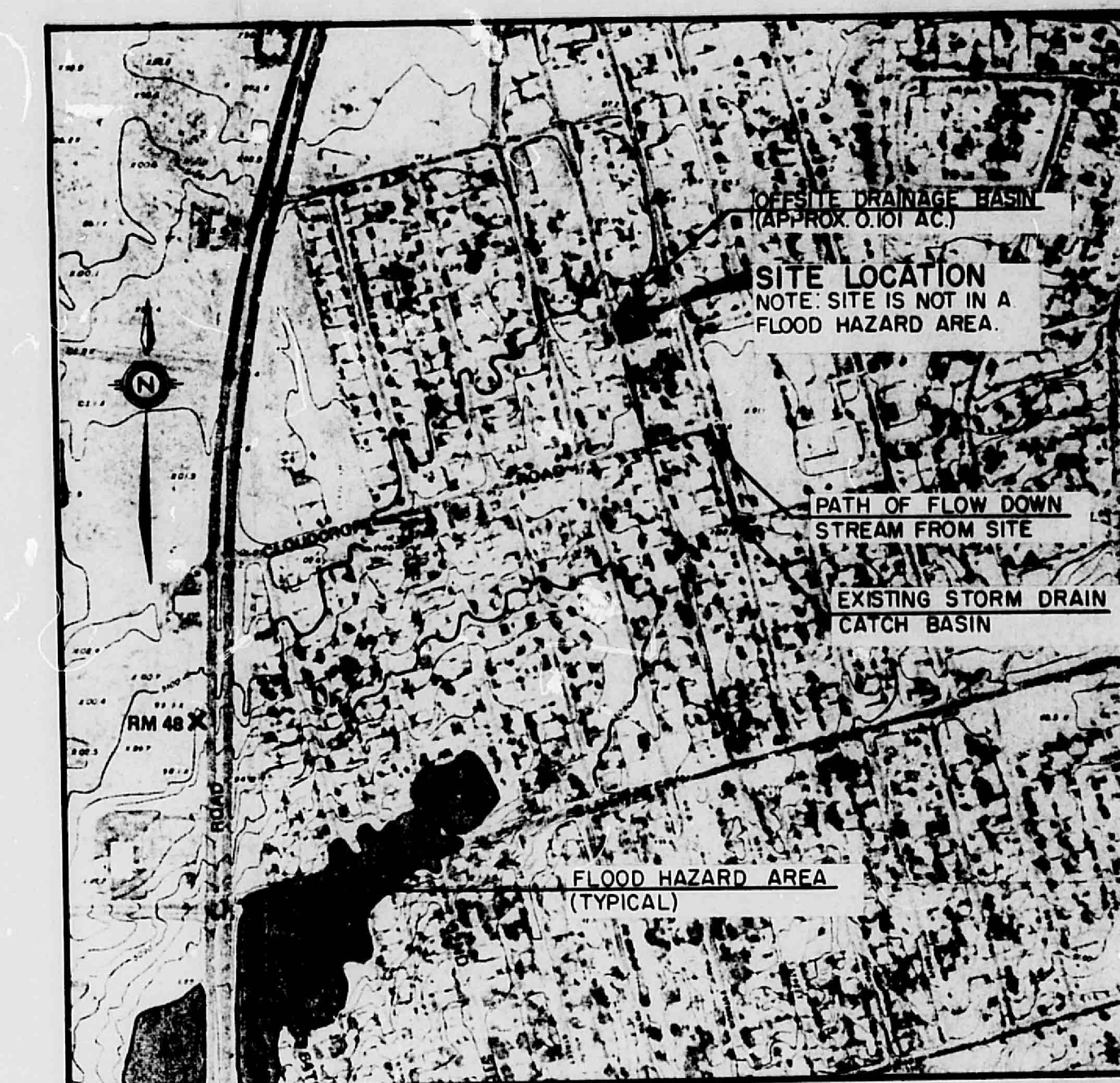
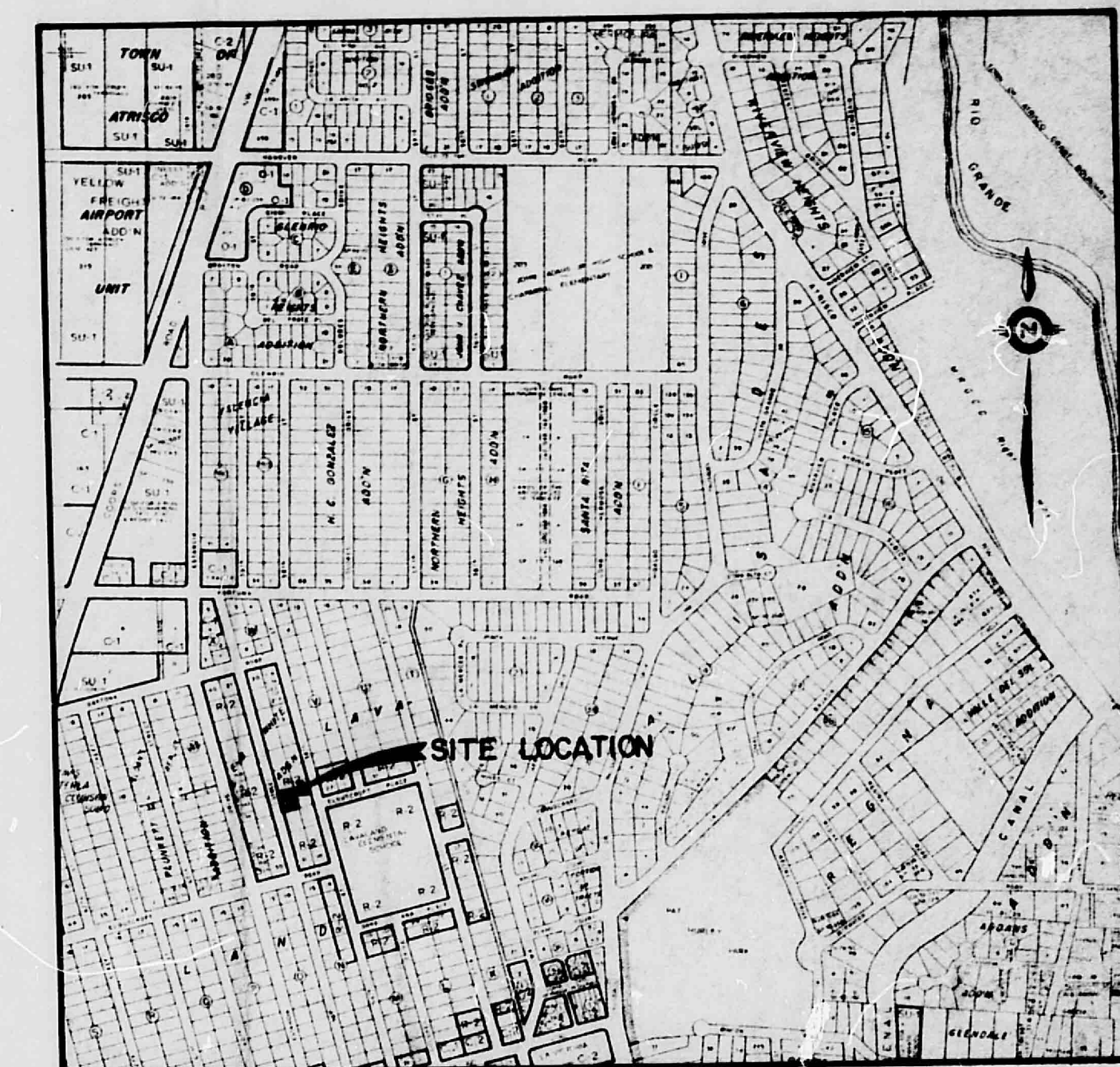




- COMPUTATIONS**
- PEAK 100 YEAR RUNOFF - ON SITE**
 $6 \text{ HR.} - 100 \text{ YR. RAIN} = 2.25"$
 $1/6 \text{ HR.} = 2.15"$
 $I = 2.25 \times 2.15 = 4.84"/\text{HR.}$
 NON PERVIOUS AREA = .131 ACRES
 $C (\text{NONPERVIOUS}) = .95$
 PERVIOUS AREA = .071 ACRES
 $C (\text{PERVIOUS}) = .65$
 TOTAL AREA = .202 ACRES.
 $\text{COMPOSITE } C = .131 (.95) + .071 (.65) = .85$
 $Q (\text{PEAK}) = .85 (4.84) (.202) = .83 \text{ CFS}$
 - PEAK 100 YEAR RUNOFF - OFFSITE**
 ASSUME SAME COMPOSITE C AS ONSITE
 TOTAL AREA = .101 ACRES
 $Q (\text{PEAK}) = .85 (4.84) (.202) = .42 \text{ CFS}$
 $Q (\text{PEAK, TOTAL}) = .83 + .42 = 1.25$
 - 100 YEAR VOLUME - ON SITE**
 $V = .85 (.202) (43560) (2.25/12) = 1400 \text{ CF}$
 - 100 YEAR VOLUME - OFFSITE**
 $V = .85 (.101) (43560) (2.25/12) = 700 \text{ CF}$
 - CAPACITY OF 2' SIDEWALK CULVERT**
 - INLET:**
 $H = [1.25 / (3) (2)]^{2/3} = .35' \text{ OK}$
 - RUNDOWN:**
 $Q = 1.25 \text{ CFS}$
 $N = .017$
 $S = .005$
 $SS = 0$
 $WIDTH = 2'$
 FROM MANNING
 $D = .23' \text{ OK}$
 $V = 2.25 \text{ FPS}$
 $FROUDE \# = 0.75$
 - PEAK 100 YEAR RUNOFF-ON SITE (UNDEVELOPED)**
 $Q = .65 (4.84) (.202) = .64 \text{ CFS}$



OFFSITE DRAINAGE
SCALE: 1" = 500'

FROM FEDERAL EMERGENCY
MANAGEMENT AGENCY FLOODWAY
MAP: COMMUNITY-PANEL NO.
350002 0027, PANEL 27 OF 50.

RECEIVED
OCT 03 1985
HYDROLOGY SECTION

DRAINAGE PLAN FOR
4- PLEX
520 59th. STREET, N.W.
LOT 14, E.B. WHITE ADDITION

Kent M. Whitman

8/27/85

APPROVED FOR DRAINAGE
10-3-LS
SIGNATURE
ADVISE DRAINAGE INSPECTOR
WHEN GRADING EXECUTED

REVISED OCTOBER 2, 1985
REVISED SEPTEMBER 11, 1985
JULY, 1985
NOTED
M.Y.
C.S.B.
9322-01-036

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ORIGINAL DOCUMENT

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